

N2XS(FL)2Y 12/20 (24)kV Cable



APPLICATION

Medium voltage power cables for distribution networks and generation units, suitable for external installation including direct in ground and in buried cable ducts. UV Resistant.

CHARACTERISTICS

Voltage Rating U_0/U (Um)

12/20 (24)kV

Temperature Rating

Maximum Conductor Operating Temperature: 90°C

Maximum Screen Operating Temperature: 80°C

Maximum Conductor Temperature During S.C.: 250°C

Minimum Bending Radius

20 x Outer diameter

STANDARDS

IIEC 60502-2, IEC 60228

UV Resistant

THE CABLE TEST

We have world-class testing facility, and made rigorous testing regime, every meter of cable before leaving the factory must go through strict testing, testing qualified products will be shipped to customers, effectively ensure product quality and meet customer requirements.

SUSTAINABILITY COMMITMENT

Guowang Cable actively implements the "carbon reduction" goal, strives to promote the green's low-carbon transformation, strengthens energy-saving and emission reduction technology innovation, and promotes the company's healthy and sustainable development.

CONSTRUCTION

Conductor

Class 2 Stranded Circular Compacted Copper

Inner Semi Conductor

Extruded Inner Semi Conductor (Bonded Type)

Insulation

XLPE (Cross-Linked Polyethylene) 90°C

Outer Semi Conductor

Extruded Outer Semi Conductor
(Strippable Type)

Semi Conductive Water Blocking Tape

Screen

Copper Wires and Open Helix Copper Tape

Non-Conductive Water Blocking Tape

Aluminium Tape

Outer Sheath

MDPE (Medium Density Polyethylene)

Sheath Colour

● Black

DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA	NOMINAL SCREEN CROSS SECTIONAL AREA	NOMINAL INSULATION THICKNESS	NOMINAL SHEATH THICKNESS	NOMINAL OVERALL DIAMETER	NOMINAL WEIGHT
	mm ²	mm ²	mm	mm	mm	kg/km
1	50	16	5.5	1.8	28.8	1092
1	70	16	5.5	1.9	30.8	1337
1	95	16	5.5	1.9	32.1	1600
1	120	16	5.5	2	33.7	1869
1	150	25	5.5	2	35.5	2252
1	185	25	5.5	2.1	37.0	2605
1	240	25	5.5	2.2	39.6	3205
1	300	25	5.5	2.2	42.0	3790
1	400	35	5.5	2.3	45.0	4734
1	500	35	5.5	2.4	48.6	5754
1	630	35	5.5	2.5	53.5	7214
1	800	35	5.5	2.7	58	9043

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/km	MAXIMUM CONDUCTOR AC RESISTANCE AT OPERATING TEMP. AND 50HZ Ω/km	CAPACITANCE uF/km	CHARGING CURRENT A/km	DIELECTRIC LOSSES W/km	REACTANCE AT 50 HZ ohm/km	CONDUCTOR S.C.C 1SEC kA	COPPER SCREEN S.C.C FOR 1SEC kA	CURRENT RATING A	
									Laid in ground	Lain in free air
50	0.387	0.494	0.184	0.693	33.24	0.140	7.15	1.75	210	221
70	0.268	0.342	0.209	0.787	37.78	0.132	10.01	1.75	255	278
95	0.193	0.247	0.227	0.855	41.03	0.127	13.585	1.75	303	340
120	0.153	0.196	0.246	0.928	44.52	0.122	17.16	1.75	346	393
150	0.124	0.159	0.268	1.01	48.48	0.117	21.45	2.73	385	442
185	0.0991	0.128	0.288	1.087	52.18	0.114	26.455	2.73	434	510
240	0.0754	0.098	0.321	1.21	58.08	0.109	34.32	2.73	498	602
300	0.0601	0.078	0.353	1.333	63.97	0.105	42.9	2.73	559	695
400	0.047	0.062	0.388	1.465	70.33	0.101	57.2	3.82	627	794
500	0.0366	0.049	0.434	1.638	78.63	0.098	71.5	3.82	705	917
630	0.0283	0.039	0.498	1.876	90.08	0.095	90.09	3.82	780	1038
800	0.0221	0.032	0.553	2.084	100.05	0.093	114.4	3.82	850	1169

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.